



BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING

140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908

## NOTICE OF ACCEPTANCE (NOA)

[www.miamidade.gov](http://www.miamidade.gov)

Hurst Awning Company, Inc.  
6865 NW 36<sup>th</sup> Ave.  
Miami, FL 33147

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

### DESCRIPTION: Aluminum Hinged Colonial Shutter

**APPROVAL DOCUMENT:** Drawing No. 08-138, titled "Hinged Colonial Shutter", sheets 1 through 2 of 2, prepared by Knezevich Associates Consulting Engineers, dated June 25, 2008, last revision #0 dated June 25, 2008, signed and sealed by V.J. Knezevich, P.E., bearing Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Division.

### MISSILE IMPACT RATING: Large and Small Missile Impact

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA # 07-0322.01 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, & E-4 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.



*Helmy A. Makar*  
08/21/2008

NOA No. 08-0715.02  
Expiration Date: 08/29/2013  
Approval Date: 08/21/2008  
Page 1

**Hurst Awning Company, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #96-0701.03**

**A. DRAWINGS**

1. *Drawing No. 96-219, Hurst Awning Co., Hinged Colonial Shutter, Sheets 1 through 2 of 2, prepared by Knezevich & Associates, dated 11/14/94 with Revision No. 1, dated 06/25/96, signed and sealed by V.J. Knezevich, P.E.*

**B. TESTS**

1. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of colonial shutters w/ four sections and four horizontal bars, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-94-353, dated October 26, 1994, signed and sealed by Hector M. Medina, P.E.*
2. *Test report on Uniform Static Air Pressure Test of colonial shutters w/ four sections and four horizontal bars, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-94-353, dated October 27, 1994, signed and sealed by Hector M. Medina, P.E.*

**C. CALCULATIONS**

1. *Anchor analysis dated 12/07/94, Pages 1 and 2 of 2, prepared by Knezevich & Associates, Inc., signed and sealed by V.J. Knezevich, P.E.*
2. *Anchorage Calculations for 12 additional details/conditions, Hurst Awning Co., Inc., dated 9/19/95, pages 1 through 37, prepared by Knezevich & Associates, Inc., signed by V.J. Knezevich, P.E.*

**D. MATERIAL CERTIFICATIONS**

1. *Mill Certified Inspection Report issued by INDALLEX, dated 12/13/94, with chemical composition and mechanical properties for aluminum alloy 6063-T6 for louver blade Part no. GAS-42150.*
2. *Certified Tensile Test Report No. HETI 94-T43, for colonial shutter specimen, prepared by Hurricane Engineering & Testing, Inc., Report, dated 11/09/94, per ASTM-E8-93, signed and sealed by Hector M. Medina, P.E.*

**2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #99-0510.01**

**A. DRAWINGS**

1. *None.*

**B. TESTS**

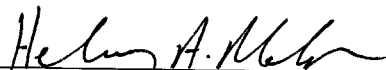
1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. MATERIAL CERTIFICATIONS**

1. *None.*



**Kelly A. Makar, P.E., M.S.**

**Product Control Examiner**

**NOA No. 08-0715.02**

**Expiration Date: 08/29/2013**

**Approval Date: 08/21/2008**

**Hurst Awning Company, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #99-0604.06**

**A. DRAWINGS**

1. *Drawing No. 99-055, titled "Hinged Colonial Shutter", dated May 26, 1999, sheets 1 and 2 of 2, prepared by Knezevich & Associates, Inc., signed and sealed by V.J. Knezevich, P.E.*

**B. TESTS**

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test, and Uniform Static Air Pressure Test of colonial shutters, prepared by Construction Testing Corporation, Report No. CTC 99-020, dated April 21, 1999, signed and sealed by Yamil G. Kuri, P.E.*

**C. CALCULATIONS**

1. *Anchor analysis dated May 26, 1999, Pages 1 through 20, prepared by Knezevich & Associates, Inc., signed and sealed by V.J. Knezevich, P.E.*

**D. MATERIAL CERTIFICATIONS**

1. *Mill Certified Inspection Report issued by Hudson Metals, dated 05/28/99, with chemical composition for aluminum alloy 3003-H14 for aluminum sheeting.*
2. *Certified Tensile Test Report No. CTL- 420E, for colonial shutter specimen 99-020, prepared by Certified Testing Laboratories, dated April 19, 1999, per ASTM-E8, signed and sealed by Ramish Patel, P.E.*

**4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-0315.04**

**A. DRAWINGS**

See NOA 02-0315.04 (General Notes)

**B. TESTS**

See NOA 99-0604.06

**C. CALCULATIONS**

See NOA 99-0604.06

**D. MATERIAL CERTIFICATIONS**

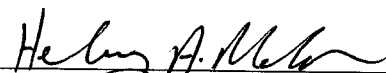
See NOA 99-0604.06

**E. STATEMENTS**

See NOA 99-0604.06

**F. OTHER**

NOA 99-0604.06



**Helmy A. Makar, P.E., M.S.**

**Product Control Examiner**

**NOA No. 08-0715.02**

**Expiration Date: 08/29/2013**

**Approval Date: 08/21/2008**

**Hurst Awning Company, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 02-0624.03**

**A. DRAWINGS**

1. *Drawing No. 99-055, titled "Hinged Colonial Shutter", sheets 1 through 2 of 2, prepared by Knezevich & Associates, Inc., dated May 26, 1999, last revision #1 dated May 10, 2002, signed and sealed by V.J. Knezevich, P.E. on May 14, 2002.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. MATERIAL CERTIFICATIONS**

1. *None.*

**E. STATEMENTS**

1. *Letter from Hurst Awning Company, Inc., dated June 21, 2002, signed by Frank S. Cornelius, stating that nothing has changed in the product approval #02-0315.04 and Knezevich & Associates, Inc. is still in the engineering business.*

**6. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #04-0114.02**

**A. DRAWINGS**

1. *Drawing No. 03-205, titled "Hinged Colonial Shutter", sheets 1 through 2 of 2, prepared by Thornton-Tomasetti Group, dated November 25, 2003, last revision #3 dated April 04, 2006, signed and sealed by V.J. Knezevich, P.E. on April 04, 2006.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *Anchor analysis dated November 25, 2003, Pages 1 through 12 of 12, prepared by Knezevich & Associates, Inc., signed and sealed by V.J. Knezevich, P.E.*
2. *Anchor analysis dated April 01, 2004, Pages 13 & 14, prepared by Knezevich & Associates, Inc., signed and sealed by V.J. Knezevich, P.E.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Building Code Compliance Office.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*



**Helmy A. Makar, P.E., M.S.**  
**Product Control Examiner**  
**NOA No. 08-0715.02**  
**Expiration Date: 08/29/2013**  
**Approval Date: 08/21/2008**

**Hurst Awning Company, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**7. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #07-0322.01**

**A. DRAWINGS**

1. *None.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Building Code Compliance Office.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**8. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *Drawing No. 08-138, titled " Hinged Colonial Shutter ", sheets 1 through 2 of 2, prepared by Knezevich Associates Consulting Engineers, dated June 25, 2008, last revision #0 dated June 25, 2008, signed and sealed by V.J. Knezevich, P.E.*

**B. TESTS**

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test, and Uniform Static Air Pressure Test of colonial shutters, prepared by Construction Testing Corporation, Report No. CTC 08-006, dated June 16, 2008, signed and sealed by Yamil G. Kuri, P.E.*

**C. CALCULATIONS**


1. *None.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Building Code Compliance Office.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*



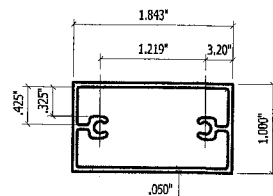
**Helmy A. Makar, P.E., M.S.**

**Product Control Examiner**

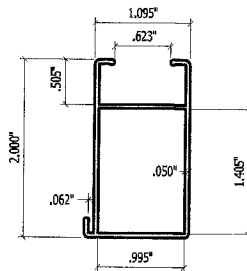
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**Expiration Date: 08/29/2013**

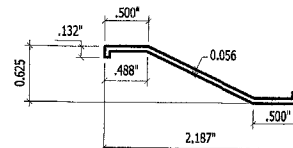
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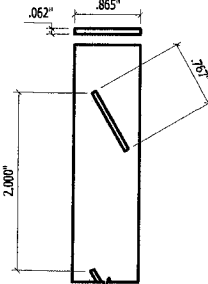
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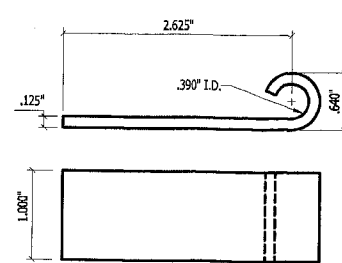
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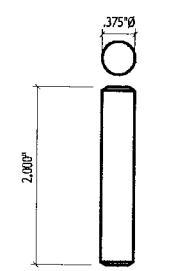
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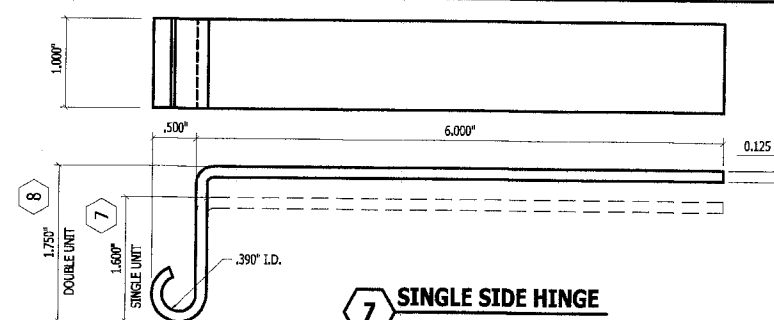
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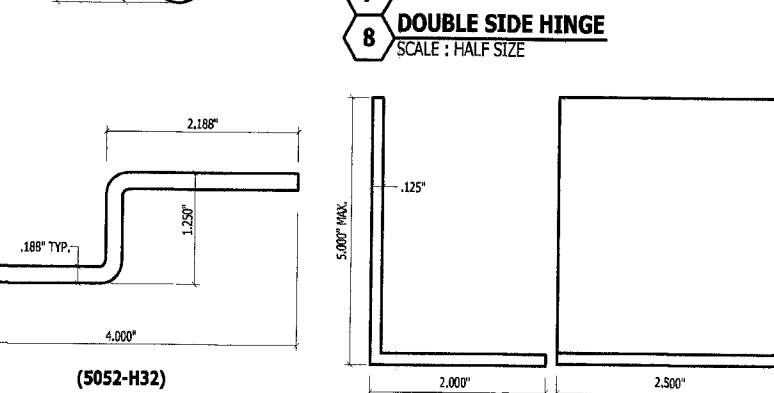
5 FLAT HINGE  
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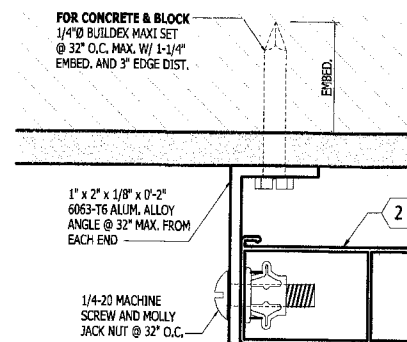
6 HINGE PIN  
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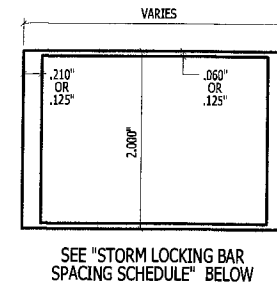
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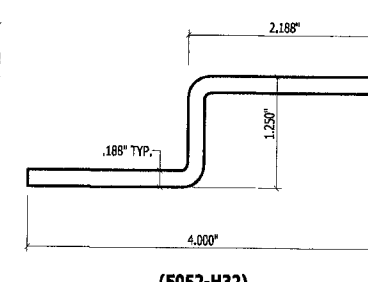
8 DOUBLE SIDE HINGE  
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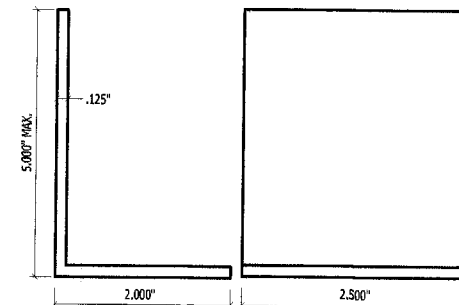
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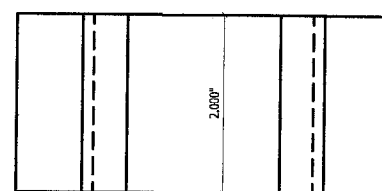
10 LOCKING BAR  
SCALE: HALF SIZE



11 Z BAR  
SCALE: HALF SIZE



12 ANGLE  
SCALE: HALF SIZE



13 WALL MOUNT BRACKET  
SCALE: HALF SIZE

STRUCTURE	ANCHORS REQ'D	
	SHUTTER WIDTH	
CONCRETE	57"	2
	114"	4
BLOCK	N/A	2
	N/A	4

Z BAR REQUIREMENTS		
ANCHOR	QTY.	Z BAR LENGTH (IN.)
1/4" CALK-IN	2	6"
	4	10-1/2"
1/4" FEMALE PANELMATE	2	6"
	3	7-1/2"
	4	10-1/2"
	7	16-1/2"

STORM LOCKING BAR SPACING & WALL MOUNT BRACKET ANCHOR SCHEDULE *											
LOCKING BAR SIZE	MAX. BAR SPACING	MAX. SHUTTER WIDTH	MAX. BAR LENGTH	CONCRETE (2000 psi)				BLOCK WITH FILLED CELLS			
				QTY.	ANCHOR Ø	ANCHOR TYPE	EMBED.	QTY.	ANCHOR Ø	ANCHOR TYPE	EMBED.
2" x 2" x 1/8"	32"	48-1/4"	60"	2	3/8"	Powers Tapper	1-3/4"	2	3/8"	Powers Tapper	1-1/4"
2" x 2" x 1/8"	24"	57-1/4"	69"	2	3/8"	Powers Tapper	1-3/4"	2	3/8"	Powers Tapper	1-1/4"
2" x 3" x 0.21" x 0.06"	32"	75-1/4"	87"	2	3/8"	Powers Tapper	1-3/4"	2	3/8"	Powers Bolt	2"
2" x 3" x 0.21" x 0.06"	29"	80-1/4"	92"	2	3/8"	Powers Tapper	1-3/4"	2	3/8"	Powers Bolt	2"
2" x 3" x 0.21" x 0.06"	24"	89-1/4"	101"	2	3/8"	Powers Tapper	1-3/4"	2	3/8"	Powers Bolt	2"
2" x 3" x 0.21" x 0.06"	18"	104-1/4"	116"	2	3/8"	Powers Tapper	1-3/4"	2	3/8"	Powers Bolt	2"
2" x 4" x 0.21" x 0.06"	32"	92-1/4"	104"	2	3/8"	Powers Bolt	2"	2	3/8"	Powers Bolt	2"
2" x 4" x 0.21" x 0.06"	29"	97-1/4"	109"	2	3/8"	Powers Bolt	2"	2	3/8"	Powers Bolt	2"
2" x 4" x 0.21" x 0.06"	24"	108-1/4"	120"	2	3/8"	Powers Bolt	2"	2	3/8"	Powers Bolt	2"
2" x 4" x 0.21" x 0.06"	18"	114"	126"	2	3/8"	Powers Tapper	2"	2	3/8"	Powers Bolt	2"

\* SEE STORM LOCKING BAR SPACING SCHEDULE NOTES

#### GENERAL NOTES:

- THESE EVALUATION DOCUMENTS REPRESENT A SHUTTER SYSTEM ANALYZED WITH THE PROVISION SET FOR THE ISSUANCE OF A NOTICE OF ACCEPTANCE (NOA) BY MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION FOR THE HIGH VELOCITY HURRICANE ZONE & NON-HIGH VELOCITY HURRICANE ZONE OF THE FLORIDA BUILDING CODE 2007.
- AN ALLOWABLE LOAD INCREASE HAS NOT BEEN USED IN THE DESIGN OF THE ANCHOR SPACING OF THIS PRODUCT.
- DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH ASCE 7-05, A DIRECTIONALITY FACTOR OF  $K_d = 0.85$  MAY BE USED.
- THESE EVALUATION DOCUMENTS ARE GENERIC AND DO NOT INCLUDE INFORMATION FOR SITE-SPECIFIC APPLICATION OF THIS SHUTTER SYSTEM.
- USE OF THESE EVALUATION DOCUMENTS SHALL COMPLY WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.
- THESE EVALUATION DOCUMENTS, ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THAT THE EXISTING STRUCTURE DOES NOT DEVIATE IN EITHER FORM OR MATERIAL FROM THE STRUCTURAL SUBSTRATES DETAILED HEREIN.
- ANY MODIFICATIONS OR ADDITIONS TO THESE EVALUATION DOCUMENTS WILL VOID THE EVALUATION DOCUMENTS.
- WHEN THE SITE CONDITIONS DEVIATE FROM THESE EVALUATION DOCUMENTS, THE BUILDING OFFICIAL MAY ELECT ONE OF THE FOLLOWING OPTIONS:
  - REQUIRE THAT SITE SPECIFIC DOCUMENTS BE PREPARED, SIGNED, DATED AND SEALED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT, WHICH DETAIL AND JUSTIFY THE DEVIATION.
  - REQUIRE THAT A ONE-TIME SITE SPECIFIC APPROVAL BE APPLIED FOR AND SECURED FROM THE MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION.
- WHEN THE SITE CONDITION DEVIATIONS OCCUR WITHIN THE HIGH VELOCITY HURRICANE ZONE AREAS ONLY OPTION "B" SHALL BE ACCEPTED BY THE BUILDING OFFICIAL.
- THIS SHUTTER SYSTEM HAS A MAXIMUM PERFORMANCE RATING, IN THE CLOSED POSITION OF:  
POSITIVE DESIGN LOAD +55.0 PSF  
NEGATIVE DESIGN LOAD -72.0 PSF
- PRODUCT MARKINGS SHALL BE A MIN. OF ONE PER SHUTTER AND SHALL BE LABELED AS FOLLOWS:

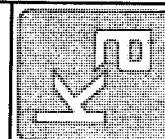
HURST AWNING CO., INC.  
MIAMI, FLORIDA

MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED

- ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N.
- STORM BARS ARE NOT REQUIRED FOR SHUTTERS LESS THAN OR EQUAL TO 32" IN HEIGHT, ONE STORM BAR IS REQUIRED FOR SHUTTER HEIGHTS GREATER THAN 32" AND LESS THAN OR EQUAL TO 64".
- WHERE Z-BAR CANNOT BE INSTALLED, A LOCKING BAR FROM THE SCHEDULE MAY BE SUBSTITUTED.
- THIS SHUTTER SHALL BE PROVIDED WITH A PERMANENT LABEL INSTRUCTING THE OWNER OR TENANT TO "CLOSE THE SHUTTER AND INSTALL ALL REMOVABLE STORM BARS" AS DETAILED IN THIS DRAWING DURING PERIODS OF TIME AS ARE DESIGNATED BY THE U.S. WEATHER BUREAU AS BEING A HURRICANE WARNING ALERT.
- A SINGLE FIXED PANEL, WITHOUT AN ALUMINUM BACKING, CAN BE ATTACHED ON EACH SIDE OF THE OPENING FOR DECORATIVE PURPOSES ONLY, USING 1/4" ITW BUILDDEX MAXISET TAPCONS W/ 1-1/4" MIN. EMBEDMENT @ EACH CORNER AND 32" O.C. MINIMUM SPACING.
- ALL BOLTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MIN.  $F_y = 33$  KSI OR 2024-T4 ALUMINUM. POP RIVETS SHALL BE 3/16" STAINLESS STEEL.

#### STORM LOCKING BAR SPACING SCHEDULE NOTES:

- MAXIMUM SHUTTER WIDTH IS 114" FOR WIND LOAD CONSIDERATION.
- POSITION ALUMINUM BEAM SUCH THAT THE LARGEST DIMENSION IS HORIZONTAL.
- NO MORE THAN FOUR (4) INTERMEDIATE LOCKING BARS ARE PERMITTED.

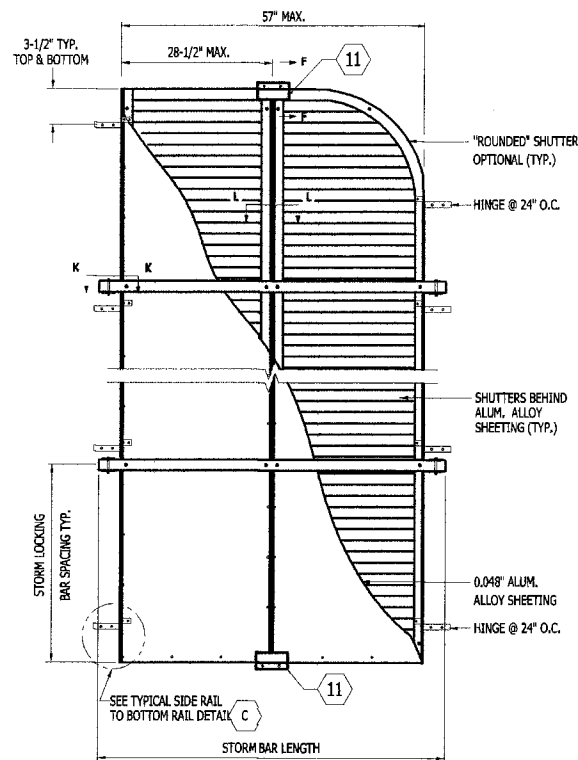


**KNEZEVICH ASSOCIATES**  
Consulting Engineers  
2590 S.W. 105th Terrace \* Davie, Florida 33324  
T (954) 821-6933 \* F (954) 452-7960 \* COA 27989  
website: www.knezevich.com \* email: VJK@knezevich.com  
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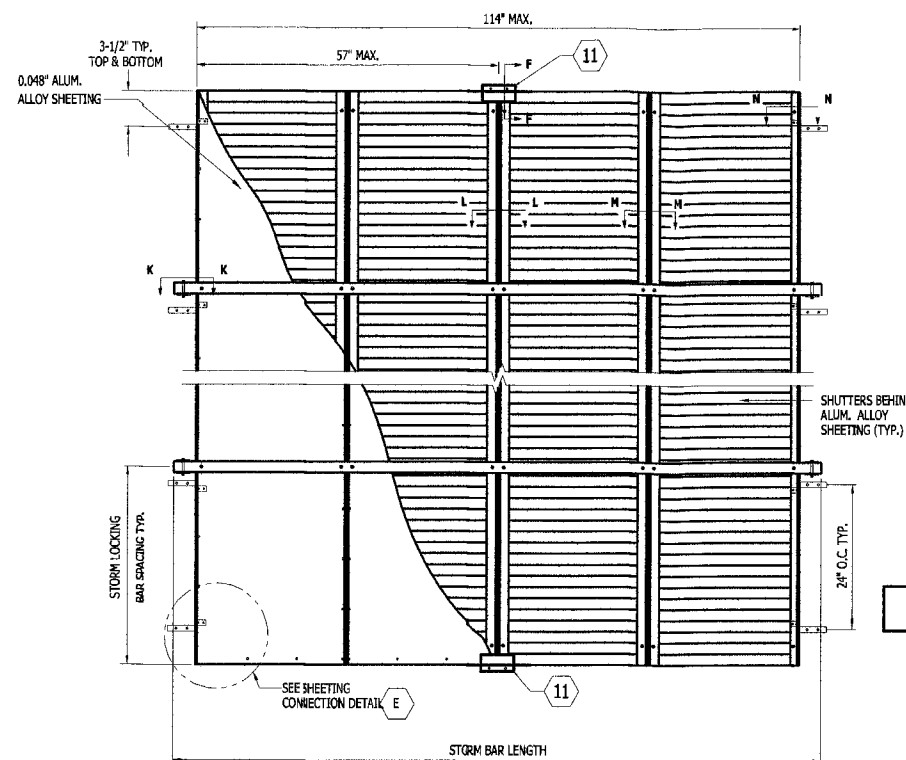
**HINGED COLONIAL SHUTTER**  
Manufacturers of Hurricane & Security Protection Products  
6865 N.W. 36th Avenue  
Miami, Florida 33147  
Phone: (305) 635-0900  
Toll Free: (800) 327-0905  
Fax: (305) 634-9078  
**HURST AWNING COMPANY, INC.**  
"QUALITY SERVICE SINCE 1957"

revisions		description	
no	date	description	by
1	06/25/2008	PREVIOUSLY DRAWING NO. 08-205	VJK

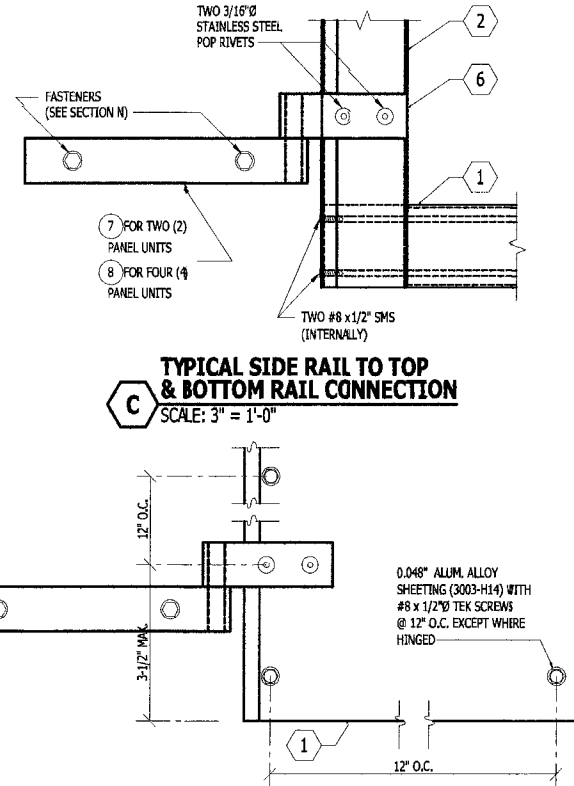
V.J. Knezevich  
Professional Engineer  
FL License No.: PE 0010983  
JUN 25 2008  
drawn by ARV scale AS NOTED  
date 06/25/2008  
drawing no. 08-138  
sheet 1 of 2



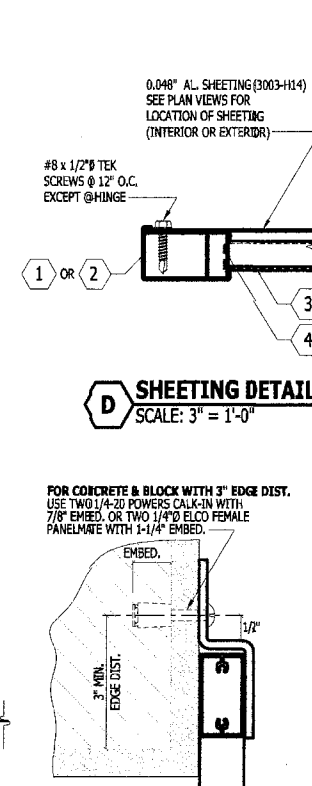
**A TYPICAL ELEVATION (TWO PANEL UNIT)**  
SCALE: 3/8" = 1'-0"



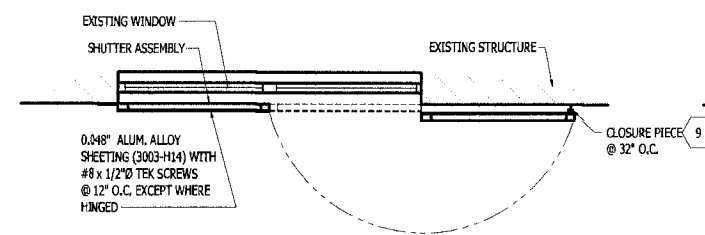
**B TYPICAL ELEVATION (FOUR PANEL UNIT)**  
SCALE: 3/8" = 1'-0"



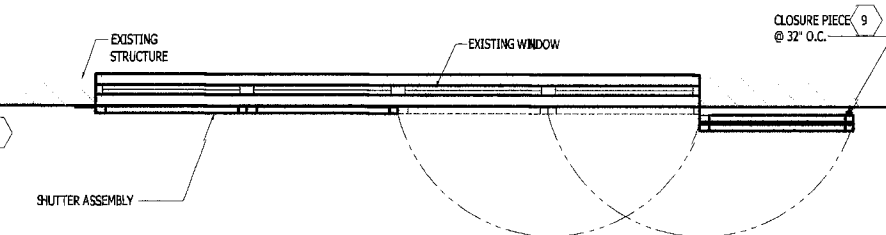
**C TYPICAL SIDE RAIL TO TOP & BOTTOM RAIL CONNECTION**  
SCALE: 3" = 1'-0"



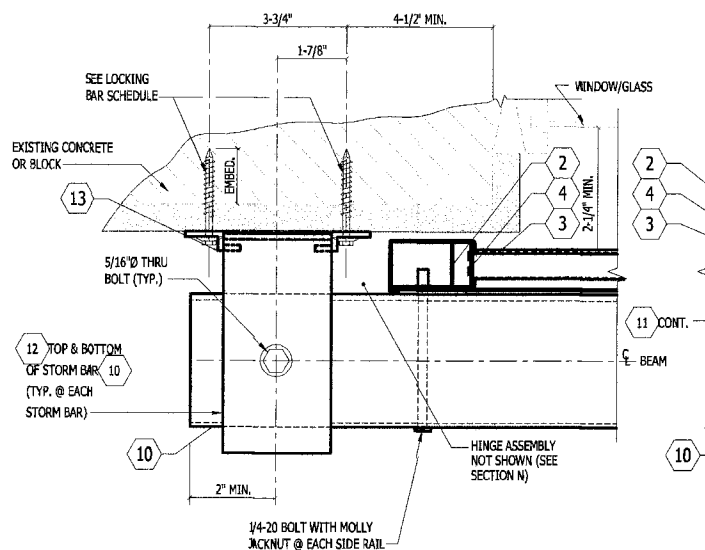
**D SHEETING DETAIL**  
SCALE: 3" = 1'-0"



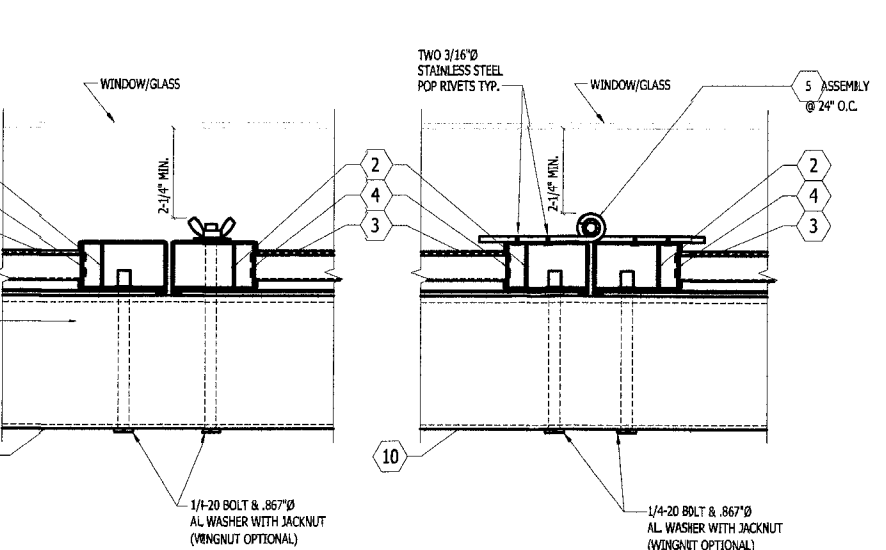
**G TWO PANEL UNIT (PLAN VIEW)**  
SCALE: 3/8" = 1'-0"



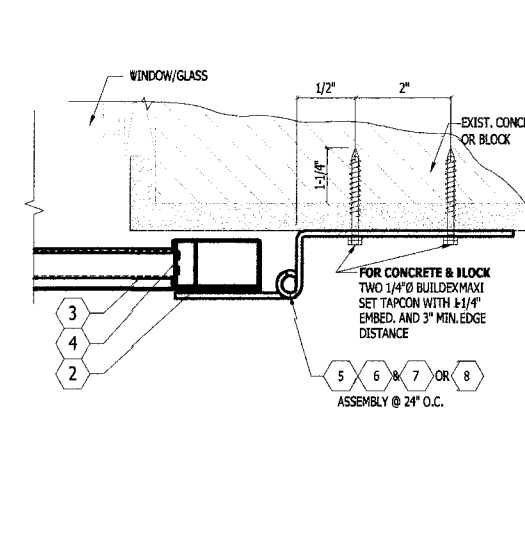
**H FOUR PANEL UNIT (PLAN VIEW)**  
SCALE: 3/8" = 1'-0"



**K BAR WALL CONNECTION**  
SCALE: 3" = 1'-0"



**L ASTRAGAL DETAIL**  
SCALE: 3" = 1'-0"



**M HINGE DETAIL**  
SCALE: 3" = 1'-0"

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No. 08-0715-02  
Expiration Date 08/29/2013  
by *Helmy A. Knezevich*  
Miami Trade Product Control  
Division

revisions	
no.	description
1	REVISIONS
2	REVISIONS
3	REVISIONS
4	REVISIONS
5	REVISIONS
6	REVISIONS
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8	REVISIONS
9	REVISIONS
10	REVISIONS
11	REVISIONS
12	REVISIONS
13	REVISIONS

**V.J. Knezevich**  
Professional Engineer  
FL License No. PE 0010983

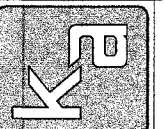
**JUN 25 2008**

drawn by **ARK** scale **AS NOTED**

date **06/25/2008**

drawing no. **08-138**

sheet 2 of 2



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"QUALITY SERVICE SINCE 1957"

**revisions**

**V.J. Knezevich**  
Professional Engineer  
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**JUN 25 2008**

drawn by **ARK** scale **AS NOTED**

date **06/25/2008**

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sheet 2 of 2